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This book is an introduction to the quantitative treatment of chemical reaction engineering. It is appropriate for a one-semester undergraduate (or first-year graduate) course. The text provides a balanced approach: first, it covers both homogeneous and heterogeneous reacting systems; second, it covers both chemical reaction engineering and chemical reactor engineering.

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Completion of the entire text will give the reader a good introduction to the fundamentals of chemical reaction engineering and provide a basis for extensions into other nontraditional uses of these analyses, for example, behavior of biological systems, processing of electronic materials, and prediction of global atmospheric phenomena.

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"Chemistry in the hands of Engineers!". This mantra, initiated and developed largely in the research programs of academic chemical engineers over the last few decades, has now made its way into the core undergraduate curriculum in the form of a new Chemical Reaction Engineering textbook by Cal Tech's Mark...

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It covers both homogeneous and heterogeneous reacting systems and examines chemical reaction engineering as well as chemical reactor engineering. The authors take a chemical approach, helping students develop an intuitive feeling for concepts, rather than an engineering approach, which tends to overlook the inner workings of systems and objects.

Fundamentals of Chemical Reaction Engineering

Fundamentals of Chemical Reaction Engineering - "Chemistry in the hands of Engineers!" This mantra, initiated and developed largely in the research programs of academic chemical engineers over the last few decades, has now made its way into the core undergraduate curriculum in the form of a new Chemical Reaction Engineering textbook by Cal Tech's Mark E. Davis and U VA's Robert J. Davis..." -Michael T. Klein, Rutgers University

Fundamentals of Chemical Reaction Engineering PDF ...

Fundamentals of Chemical Reaction Engineering This book is an introduction to chemical reaction engineering and was published by McGraw-Hill in 2003. It is meant to be used in a one-semester course. In fact, our undergraduate reaction engineering course currently uses this textbook.

Fundamentals of Chemical Reaction Engineering

The subject of chemical reaction engineering initiated and evolved primarily to accomplish the task of describing how to choose, size, and determine the optimal operating conditions for a reactor whose purpose is to produce a given set of chemicals in a petrochemical application.

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() (e) (+) nucleus nucleus bond Figure 1. Stable molecules.

Fundamentals of Chemical Reactions - MIT OpenCourseWare

Chemical reaction engineering (reaction engineering or reactor engineering) is a specialty in chemical engineering or industrial chemistry dealing with chemical reactors. Frequently the term relates specifically to catalytic reaction systems where either a homogeneous or heterogeneous catalyst is present in the reactor.

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